CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/VE/W.No.14/CSR-01/550b/CEMENT/2017-18

Date: 23.01.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Cement
Sample Received on	:	22.01.2018
Period of Testing	:	22.01.2018 to 23.01.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K
Technical Manager

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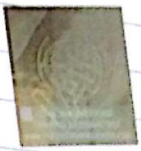
T-2377

Job No.:CTCE/BBMP/VE/W.No.14/CSR-01/550b/SAND-Gradation/2017-18

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

23.01.2018

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	22.01.2018
Date of Testing	:	23.01.2018



Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.50	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	46.90	30-70	55-90	75-100	90-100
600 Micron	18.50	15-34	35-59	60-79	80-100
300 Micron	9.50	5-20	8-30	12-40	15-50
150 Micron	7.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.:CTCE/BBMP/VE/W.No.14/CSR-01/550b/AGG/GR/2017-18

23.01.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	M/s. Venkateshwara Enterprises, #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	22.01.2018
Date of Testing	:	23.01.2018

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.10	95-100	85-100
20	35.86	30-70	0-20
10	17.56	10-35	0-5
4.75	2.40	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/VE/W.No.14/CSR-01/550b/Cube/2017-18

14.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -
* Name of the work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.03.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2018	14.03.2018	8.265	365.2	16.23
2	14.02.2018	14.03.2018	8.157	384.5	17.09
3	14.02.2018	14.03.2018	8.326	400.6	17.80

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* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.03.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2018	14.03.2018	8.263	366.5	16.29
2	14.02.2018	14.03.2018	8.147	382.5	17.00
3	14.02.2018	14.03.2018	8.326	395.2	17.56

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* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -
* Name of the work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.03.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2018	15.03.2018	8.174	385.2	17.12
2	15.02.2018	15.03.2018	8.326	406.2	18.05
3	15.02.2018	15.03.2018	8.425	376.2	16.72

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Job No.: CTCE/BBMP/VE/W.No.14/CSR-01/550b/Kerb Stone/2017-18

15.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of work	:	Re-Construction of cement concrete road at Jodidar Narasimhaiah layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/186/2017-18 Dated: 22.01.2018
* Sample ID	:	Kerb Stone
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	10.02.2018
Date of Testing	:	15.02.2018

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	70.00	0.365	2655.61	1.40	0.935	22.65	11.54	12.46	13.32	16.65
2	50.00	70.00	0.348	2531.93	1.40	0.935	25.17	12.82	13.84	12.95	16.18
3	50.00	75.00	0.365	2478.57	1.50	0.946	26.35	13.42	14.49	13.71	17.14

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